



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

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MEMORANDUM

SUBJECT: Methamidophos. Chemical ID No. 101201. Sensitivity Analysis

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HED was asked to determine which commodities comprised the tail (>99.9th %ile of exposure) of the acute dietary (Monte Carlo) assessment conducted for methamidophos. Information was gathered from the Critical Exposure Contribution (CEC) analysis. The results indicate that tomatoes comprise the majority of the tail end. The components of the tail end of the Monte Carlo distribution are as follows.

Methamidophos from application of methamidophos only

For the general U.S. population, 27866 records were observed; for children 1 to 6 years, 3169 record were observed.

U.S. Population		Commodity	% of CEC
Commodity	% of CEC	Tomatoes-paste	50%
Tomatoes-whole	82%	Tomatoes-whole	26%
Tomatoes-juice	9%	Tomatoes-puree	20%
Tomatoes-puree	6%	Tomatoes-juice	3%
Peppers-chili	1%	Strawberries	<1%
Potatoes-white	<1%	Summer squash	<1%
Tomatoes-paste	<1%	Sweet pepper	<1%
Summer squash	<1%	Chili pepper	<1%
Winter squash	<1%	Potatoes/white-whole	<1%
Strawberry juice	<1%		
Pimientos	<1%		
Tomatoes-catsup	<1%		
Strawberries	<1%		
Pepper-sweet	<1%		

Children 1 to 6 years

Aggregate- Methamidophos from the application of both acephate and methamidophos

For the general U.S. population, 15104 records were observed; for children 1 to 6 years, 1991 record were observed.

U.S. Population

Commodity	% of CEC
Tomatoes-whole	43%
Tomatoes-puree	30%
Succulent Beans-green	10%
Tomatoes-paste	7%
Tomatoes-juice	4%
Peppers-chili	2%
Pepper-sweet	1%
Tomatoes-catsup	1%
Strawberries	1%
Potatoes-white	<1%
Summer squash	<1%
Winter squash	<1%
Strawberry juice	<1%
Pimientos	<1%
Succulent Beans-Lima	<1%
Celery	<1%
Lettuce-head	<1%
Other succulent beans	<1%

Children 1 to 6 years

Commodity	% of CEC
Tomatoes-whole	38%
Tomatoes-puree	27%
Succulent Beans-green	15%
Tomatoes-paste	11%
Tomatoes-juice	5%
Tomatoes-catsup	1%
Strawberries	<1%
Summer squash	<1%
Sweet pepper	<1%
Chili pepper	<1%
Potatoes/white-whole	<1%
Lettuce-Head	<1%
Succulent Beans-lima	<1%
Strawberry juice	<1%